



Publications



GOUNTER GLERK

AN OCCUPATIONAL PROFILE



Ministry of Colleges and Universities Program
Resources
Branch

MEATING, REFRIGERATION & AIR CONDITIONING

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COUNTER CLERK

HEATING REFIRGERATION & AIR CONDITIONING

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The History of the Analysis

On February 15, 1974 as a result of a series of meetings between representatives of the Heating, Refrigeration and Air Conditioning Industry, the Government of Ontario and the Federal Government, agreement was reached to participate in a Canada-wide joint Industry Task Analysis Program.

The Program Resources Branch, Ontario Ministry of Colleges and Universities, accepted the responsibility of providing trained analysts to conduct the actual analysis within Ontario with the guidance of a steering committee selected from a cross-section of the industry and operating under the Chairmanship of Mr. W.F. Marshall of Marshall Refrigeration Co. Ltd.

The Program Resources Branch, Ministry of Colleges and Universities wishes to acknowledge the support and assistance of the following members of the H.R.A. Industry Analysis Steering Committee:

W.F. Marshall (Chairman)
L. Cianfarani

P. Drabinsky R.D. Fraser G. Granek J.W. Ingram W. Podd

P.F. Reynolds N.W. Walden

D.R. Wheeler

Marshall Refrigeration Co. Ltd.
Ontario Sheet Metal & Air
Handling Group
Techaire Systems Inc./O.R.A.C.
H.R.A. Institute of Canada
G. Granek & Associates
Shell Canada Ltd./O.P.A.
Mohawk College/R.S.E.S.
Jenkinson & Co. Ltd./ASHRAE
O.R.A.C.
Lennox Industries (Canada) Ltd./

Scope of the Analysis

The analysis contains only those phases of the Industry considered essential in the Province of Ontario. It is limited to the body of knowledge and skills as outlined and agreed to by the Industry Analysis Steering Committee.

It was agreed that the analysis should be broad enough to cover the whole family of occupations which are representative of the Heating, Refrigeration and Air Conditioning Industry up to, but not including, professional or pure management levels. The scope of each of the occupational groups to be covered, including a general breakdown of the industry as defined by the Committee, is represented graphically by Fig. 1.

Fig. 1

HEATING		AIR CONDI	TIONING	REFRIGERATION
Domestic		Automotive		Mobile
Commercial		Residential		Marine
Gas		Commerical/R	esidential	Commerical
Oil				
Sheet	Metal			
		Electrical		
		Plumbing		
MANUFACTURING	SYSTI	EM DESIGN	DISTRIBUTION	INSTALLATION AND
				SERVICE
Applications Tech.	Design	Consultant	Applications Tech.	Applications Tech.
Sales Tech.	Estimat	tor	Sales Tech.	Estimator
Telephone Order Desk	Design	Draftsman	Purchasing	Sales Tech.
			Order Desk	Field Inspector
			Counterman	Mechanic
			Order/Picker and/or	Purchasing
			Stockman	Service Order Desk

Objectives

Although one of the essential aims of this industry/ government project is to establish an Ontario standard, it is expected that a number of equally important benefits will be provided such as:

- a basis for effective training to meet the needs of all levels of the industry in order that industry's training resources may be utilized more effectively;
- a career plan with various entry and exit levels to meet individual requirements;
- a basis for common training programs across Canada with a national standard of certification;
- a means for counselling students and attracting young people into a fast growing segment of the economy;
- a means of improving communications between industry and government on training matters.

Statement of Method

The survey, conducted by field analysis teams supervised by Mr. G.I. Bruce, Senior Training Consultant, commenced in the fall of 1974. By means of personal interviews with industry management and employees, the individual tasks comprising each occupation were determined.

The analysis teams, coordinated by G.F. Starink, asked such questions as:

- What does the worker do?
- How does the worker do it?
- Why is he/she doing it?
- What are the skills and knowledge involved?
- What is the minimum acceptable standard of performance expected?

The goals established were to determine which occupations make up the industry, to describe them in terms of performance objectives and performance standards and through these "occupational profiles" to produce a structured training progression.

Data from Statistics Canada was used to determine the population (i.e. companies) distribution for H.R.A. Industries in Ontario. A representative sample, from which valid and reliable data could be extracted, was established with the aid of the Steering Committee using agreed upon guidelines to cover significant differences for: - geographical distribution on a north/south basis; establishment size (1-10 and 11 plus); number and types of companies within each of the heating, refrigeration and air conditioning segments of the industry.

In the Industry sample encompassing over 50 companies across Ontario approximately 100 interviews were conducted and the resultant data recorded.

A task analysis of this data resulted in a consolidation of occupations from the 57 titles found within the industry to the 12 major occupations submitted to the Steering Committee in mid 1975.

The order of completion of the occupational profiles will be in accordance with priorities established by the Steering Committee.

Occupational Profiles

The following occupational profiles have been accepted by the Steering Committee. Occupations not indicated as completed are subject to on-going modification in title and content subject to approval by the committee.

Each profile is a description of the occupation in terms of performance objectives and performance standards for Ontario.

- Refrigeration & Air Conditioning Mechanic (Completed Dec./75)
- Counterman H.R.A. (Completed Jan/76)
- Warehouseman H.R.A. (Completed Jan./76)
- Salesperson
- Heating Serviceman Gas & Oil
- Design Draftsman (Intermediate, Junior)
- Designer (Technician)
- Designer (Technologist)
- Dispatcher
- Estimator
- Order Desk Clerk
- Purchasing Agent

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Sufficient knowledge of system operation will be exhibited through systematic questioning that will lead to the relevant equipment area in the shortest possible time. The minimum number of diagnostic, analytical, reminder, and leading type questions will be used to elicit maximum response from the customer. Appropriate interpretation of customer responses will lead to the correct identification of the equipment area for selection or advice on replacement and adjustment	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the operation of heating, refrigeration and air conditioning systems with emphases on system variables, including: - temperature - pressure - air flow - superheat - flooding and the necessity for working together in balance - Understand the function of each system component and the individual or combined influence on the system variables - Apply techniques of deductive questioning - Ascertain the various forms of customer terminology	THE PERSON NAMED AND PASSED OF THE PERSON NAMED AND PASSED PASSED OF THE PERSON NAMED AND PASSED PASSED PASSED PASSED PASSED
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	ANALYZE: CUSTOMER NEEDS	STREET, STREET

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	The counterman will present himself in a courteous manner and execute transactions with speed and efficiency. The customer will be informed and have an understanding of company policy toward: delivery dates discounts returned goods credit out of stock items and reordering shipping warranties Explain how the product will provide the customer with the results he is looking for using whatever additional aids are available e.g. manufacturer's brochures, reprints from technical publications, item presentation, etc. Assist the customer in identifying the nature of the complaint such as: failure failure failure misuse of product Propose follow-up procedures that will allow a selection that is satisfactory to both parties.	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Converse effectively by telephone and face to face through the use of various techniques - Promote the growth and development of good customer relations - Resolve customer complaints and problems maintaining a realistic balance between company policy and customer satisfaction - Perform a sales function by transmitting product information and gaining customer acceptance	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	COMMUNICATE WITH CUSTOMER	

		HERMING DEFEDICEBRATION AND AIR CONDITIONING C C D O No. 5135-126
SPECIFIC PERFORMANCE OBJECTIVES AND UNITERIATION:	COUNTER	
TERMINAL PERFORMANCE OBJECTIVES	ENABLING OBJECTIVES : Will be able to	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard
REGULATE STOCK	- Dispatch and receive merchandise not handled by warehouse procedures - Assist with inventory check	Follow designated interoffice procedures for itemizing and forwarding information on shipping and receiving, including damages and shortages.
	- Read and utilize material, equipment and price catalogues	Organize material and equipment literature into catalogues for pricing and description information.
	- Layout stock items for efficient handling - Apply methods of stock control	Stock items will be set up on the basis of limited available space.
		Locate stock for accessibility considering sales rate, size, weight, shape, packaging, fragility, control, safety, etc.
		Perform a stock control function by: - setting up stock records containing an indexing and coding system - establishing a minimum/maximum - establishing and item location code - monitoring stock utilizing: - a location code - records posting procedures for: - in stock quantities - back-orders - returns - exchange
		Maintain the counter and storage area free of obstructions and follow general rules of safety and housekeeping.

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select the specific transport of the form by ret information Acceptable lacomplete complete legible neat Despatch conto the systenessary	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Identify business forms commonly used for: - shipping - receiving - inter-office communication - counter sales - credit - Ascertain preciscly what information is required from each transaction for record purposes - make necessary calculations using: - price list - discount list - tax list - warranties and guaranties - Determine relevant information and methods for alerting shipping, purchasing and accounting - Utilize applicable manual filing systems and methods for efficient counter operation - Cross-reference, retrieve and store files	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	RECORD AND FILE TRANSACTIONS	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Customer area will be maintained by: - organizing literature and products in an orderly display and replenish if low - updating material - good housekeeping duties - update counter catalogue - prices - prices - specifications
COUNTER	ENABLING OBJECTIVES : Will be able to	- Aid in the selection of display merchandise - Locate racks and display literature - Display products and label items with required information - Promote new products and accessories .
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	MAINTAIN CUSTOMER AREA

TERMINAL PERFORMANCE OBJECTIVES TO be able to READ: - CATALOGUES, HANDBOOKS AND - CATALOGUES, HANDBOOKS AND - CATALOGUES, HANDBOOKS AND - CATALOGUES, HANDBOOKS AND - CATALOGUES opposite to the control of th

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select hardware from those types identified as especially suitable or compatible for a specific customer application. Verify with the customer that the tolerances of the selected hardware fulfill relative needs. Items will be located and supplied within a minimum period of time.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of assorted types of hardware and their uses in heating, refrigeration and air conditioning - Identify hardware from a minimum of information pertaining to: - function - function - frye - brand name - shape, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT: - HARDWARE of the following types: - clips and pins - rivets - clamps - latches - latches - hinges - strikers - fuel oil tank caps and gauges - vane runners - duct hangers

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select electrical hardware: - from those types functionally identified as especially suitable or compatible for a specific customer application - based upon local codes and safety consideration Verify with the customer that the ratings and tolerances of the selected electrical hardware fulfill relative needs. Items will be located and supplied within a minimum period of time.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of assorted types of electrical hardware and their uses in heating, refrigeration and air conditioning - Identify electrical hardware from a minimum of information pertaining to: - function - function - function - function - type - manufacturer's brand name - arrangement, configurations, etc Interpret and apply terminology commonly used by the: - customer - Transpose information received into precise data required for final selection from a stock control system such as: - voltage and amperage - application - wire and cable codes
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - ELECTRICAL HARDWARE of the following types: - connectors and terminals - power cords, cable and wire - switches and relays - junction boxes - insulators - sockets and plugs - lamps - lamps - lamps - heater elements - heater elements

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select hand tools: - from those types functionally identified as especially suitable or compatible for a specific customer application Verify with the customer that the parameters of the selected hand tools fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of common hand tools and their uses in heating, refrigeration and air conditioning - Identify hand tools from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc shape, arrangement, configuration, etc shape, arrangement, configuration, etc trade - manufacturer - trade - manufacturer - trade - manufacturer - trade - anufacturer - trade - manufacturer - trade - anufacturer - trade
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	of the following types: - screwdrivers - screwdrivers - wrenches and sockets - Allen keys - scrapers and chisels - metal and wood saws - files and reamers - pliers - pliers - puers and shears - cutters and shears - taps and dies - taps and dies - taps and dies - taps and bearing pullers - brushes - wheel and bearing pullers - fin combs

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	and Select power tools and accessories: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess Verify with the customer that the parameters of the selected power tools and accessories fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of power tools and their uses in heating, refrigeration and air conditioning - Identify power tools and accessories from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - application - application - application - size - capacity - Use manufacturer's specifications as resource material to determine the selection of an alternate
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR	TERMINAL PERFORMANCE OBJECTIVES : To be able to	of the following types: - drills - saws - grinders - sanders - drill bits - saw blades

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select chemicals and dispensers: - from those types functionally identified as especially suitable or compatible for a special coutomer application based upon local codes and safety consideration Verify with the customer that the parameters of the selected chemicals and dispensers fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting, and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of chemicals and dispensers and their uses in heating, refrigeration and air conditioning - Identify chemical and dispensers from a minimum of information pertaining to: - function - classification and characteristic - manufacturer's brand name, chemical name - Interpret and apply terminology commonly used by the: - customer - Transpose information received into precise data required for final selection from a stock control system such as: - application - quantity - Use manufacturer's specifications as resource material to determine the selection of an alternate chemical and dispenser
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	CHEMICALS AND DISPENSERS of the following: water treatment cleaners and degreasers oil treatment fuel oil absorbants odor neutralizers

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select electrical measuring instruments: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected electrical measuring instruments fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of electrical measuring instruments and their uses in heating, refrigerations and air conditioning - Identify electrical measuring instruments and recorders from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc. - shape, arrangement, configuration, etc. - Interpret and apply terminology commonly used by the: - customer - rade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - measuring range - sensitivity - resolution and precision - Use manufacturer's specifications as resource material to determine the selection of an alternate
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - ELECTRICAL MEASURING INSTRUMENTS of the following types: - voltmeters - ammeters - ohmmeters - multimeters - recorders - recorders - compressor analyzers - compressor analyzers

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select test instruments and accessories: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess based upon local codes and safety consideration Verify with the customer that the parameters of the selected test instruments fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of test instruments and their uses in heating, refrigeration and air conditioning - Identify test instruments and accessories from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc shape, arrangement, configuration, etc unterpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - range - accuracy - Use manufacturer's specifications as resource material to determine the selection of an alternate
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - TEST INSTRUMENTS AND ACCESSORIES of the following types: - recorders: - temperature - humidity multifunction - indicators (mechanical, electric or electronic): - manometers - hyprometers - psychrometers - tachometers - ach detectors - acid - water - combustion - gauge manifold - vacuum - gauge manifold - vacuum

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select switching relays: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electrical ratings that satisfy customer requirements without undue excess consideration Verify with the customer that the parameters of the selected switching relay fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of switching relays and their uses in heating, refrigeration and air conditioning. Identify switching relays from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc. - shape, arrangement, configuration, etc. - Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - voltage and frequency - full load (amperage) - full load (amperage) - looked rotor amperage - contact and switch action - Use manufacturer's specifications as resource material to determine the selection of an alternate switching relay	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - SWITCHING RELAYS of the following types: - general purpose - medium duty - heavy duty	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select AC motors and accessories: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration	Verify with the customer that the parameters of the selected motor and accessories fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items	Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through		
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of electric motors and their uses in heating, refrigeration and air conditioning - Identify AC electric motors and accessories from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc.	- Interpret and apply terminology commonly used by the: - customer - trade - manufacturer	- Transpose information received into precise data required for final selection from a stock control system such as: - voltage and amperage - dimensions - speed and direction of rotation	- Use manufacturer's specifications as resource material to determine the selection of an alternate motor or accessory	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - AC ELECTRIC MOTORS AND ACCESSORIES including: - motors - bases and mounting accessories - capacitors				

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select fan components: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess based upon local codes and safety consideration Verify with the customer that the parameters of the selected fan component fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of fan components and their uses in heating, refrigeration and air conditioning - Identify fan components from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - dimensions - dimensions - blower or suction - direction of rotation - numbor of blades - installation fitting - Use manufacturer's specifications as resource material to determine the selection of an alternate fan component	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - FAN COMPONENTS including: - belts - bulleys - blades - blower wheels	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select blowers and blower replacement parts: - from those types functionally identified as especially suitable or compatible for a specific customer application - with specifications that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected blower and blower replacement parts fulfill realtive needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.		
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of blowers and blower replacement parts and their uses in heating, and air conditioning - Identify blowers and blower replacement parts from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc shape, arrangement, configuration, etc trade - manufacturer - applications - application	- Use manufacturer's specifications as resource material to determine the selection of an alternate blower or blower replacement part	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - BLOWER REPLACEMENT PARTS		

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select pipe fittings: - from those types functionally identified as especially suited or compatible for a specific customer application - based upon local codes and safety considerations Verify with the customer that the parameters of the selected pipe fittings fulfill relative needs. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of pipe fittings and their uses in heating, refrigeration and air conditioning - Identify pipe fittings from a minimum of information pertaining to: - function - type - material construction - type - material construction - shape, arrangement, configuration, etc Therpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - type of connection (flare, sweat, thread or weld) - thread information - inside and outside diameters	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT: PIPE FITTINGS of the following types: - couplings - adapters - adapters - elbows - tees - p-traps and bends - plugs and gaskets - nipples - crosses - unions - nuts NOTE: The above types include: - copper - copper - iron - plastic	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select ducting: - from those types functionally identified as especially suitable or compatible for a specific customer application - based upon local codes and safety consideration Verify with the customer that the selected ducting fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of ducting and their conditioning, refrigeration and air conditioning to: - Identify ducting from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc. - shape, arrangement, configuration, etc. - shape, arrangement, configuration, etc. - Transpose information received into precise data required for final selection from a stock control system such as: - size - application - dimensions - Use manufacturer's specifications as resqurce material to determine the selection of an alternate duct	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - PRE-FABRICATED DUCTINGS including: - fittings - grills, registers and diffusers - grills, registers and diffusers - grills, registers and diffusers - grills, registers - grills, registers - grills, registers and diffusers - takeoffs - stackheads - stackheads - stack boots - tees - dampers - collars - collars - endcaps	

D CRITERIA FOR: COUNTER HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126 CLERK	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select valves: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected valve fulfill relative needs to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through
	ENABLING OBJECTIVES : Will be able to	- Understand the function of valves and their uses in heating, refrigeration and air conditioning - Identify valves from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection stock control system such as: - size and application - dimensions and connections - type of liquid or gas - type of liquid or gas - temperature, pressure or electrical ratings (if applicable) - Use manufacturer's specifications as resource material to determine the selection of an alternate valve
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	of the following types: - access - adjustable line tap - angle - an tap - check - charging - discharge by-pass - gas shut off - gate - gate - plobe - head pressure control - motorized - pressure regulating - relief - solenoid - vacuum - water regulating

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select humidifiers and dehumidifiers: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess - based upon local codes and safety considerations Verify with the customer that the specifications of the selected humidifier or dehumidifier fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of humidifiers and dehumidifiers and their uses in heating and air conditioning - Identify humidifiers and dehumidifiers from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc shape, arrangement, configuration, etc trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - capacity or output - dimensions - location - electrical characteristics - Use manufacturer's specifications as resource material to determine the selection of an alternate humidifier and dehumidifier
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	- HUMIDIFIERS & DEHUMIDIFIERS

HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select thermostats: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess based upon local codes and safety - onsideration Verify with the customer that the parameters of the selected thermostat fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of thermostats and their uses in heating, and air conditioning information pertaining to: - Identify thermostats from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc. - arrangement, configuration, etc. - Interpret and apply terminology commonly used by the: - customer - transpose information received into precise data required for final selection from a stock control system such as: - temperature range - heater rating - heater rating - electrical rating - switching action - differential - Use manufacturer's specifications as resource material to determine the selection of an alternate thermostat	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - THERMOSTATS of the following types: - heating - cooling - heating-cooling - day-night - heavy duty	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select temperature controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected temperature control fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting, and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of temperature controls and their uses in heating, refrigeration and air conditioning - Identify temperature controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc. - Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - clectrical rating - control range - electrical rating - control range - element length - dimensions - differential - switch action - Use manufacturer's specifications as resource material to determine the selection of an alternate temperature control
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - TEMPERATURE CONTROLS of the following types: - changeover - indoor-outdoor - outdoor reset - proportional - multi-stage - remote bulb

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select pressure controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected pressure control fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of pressure controls and their uses in heating, refrigeration and air conditioning - Identify pressure controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - trade - manufacturer - trade - waitch action and type - operating range - sylich action and type - operating range - sylich action and type - electrical rating - differential - Use manufacturer's specifications as resource material to determine the selection of an alternate pressure control.
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - PRESSURE CONTROLS for the following: - oil - steam - water - air including pressure switches

SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR: COUNTER HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select humidity controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected humidity control fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through
	ENABLING OBJECTIVES : Will be able to	- Understand the function of humidity controls and their uses in heating, refrigeration and air conditioning - Identify humidity controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - electrical rating - electrical rating - electrical rating - relative humidity range - differential scale - switch action - Use manufacturer's specifications as resource material to determine the selection of an alternate humidity control
	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - HUMIDITY CONTROLS

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select compressors and compressor parts: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected compressor and compressor parts fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of compressors and their uses in refrigeration and air conditioning - Identify compressors and compressor parts from a minimum of information pertaining to: - function - function - function - manufacturer's brand name, model, etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - capacity control (unloaders) - horsepower and capacity - temperature range - dimensions - electrical characteristics - dimensions - electrical characteristics - discource material to determine the selection of an alternate compressor and compressor parts
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - COMPRESSORS & COMPRESSOR PARTS of the following types: - rotary - reciprocating - centrifugal NOTE: The above types include: - open - hermetic - semi-hermetic - kemi-hermetic - two stage open compressors are: - belt driven - direct drive the cooling methods are: - air - air - water - halocarbons - ammonia commonly replaced parts are: - valve plate - valves - seals

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select evaporators and accessories: - from those types functionally identified as especially suitable or compatible for a specific customer application - sized so that abnormally high pressure drops do not occur - large enough for the allowable TD (temperature difference) between the entering air and the evaporating refrigerant as dictated by the humidity control required - small enough to maintain a high enough velocity of refrigerant to avoid oil trapping - based upon local codes and safety considerations Verify with the customer that the parameters of the selected evaporator and accessories fulfill relative needs. Ne fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of evaporators and their uses in refrigeration and air conditioning - Identify evaporators and accessories from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc Interpret and apply terminology commonly used by the: - customer - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - temperature and pressure - dimensions - tonnections - Use manufacturer's specifications as resource material to determine the selection of an alternate evaporator and accessories
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT: - EVAPORATORS AND ACCESSORIES of the following types: - flooded - dry

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select condensers and accessories: - from those types functionally identified as especially suitable or compatible for a specific customer application - to handle the compressor load at a desired temperature of the cooling medium - based upon the temperature of the water supply and the water flow rate, in order to determine the design condensing temperature or higher and lower temperature differences, if necessary, on specialized applications based upon local codes and safety - considerations - based upon local codes and safety - fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alterting, and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of condensers and their uses in refrigeration and air conditioning - Identify condensers and accessories from a minimum of information pertaining to: - function - type - manufacturers brand name, model etc shape, arrangement, configuration etc Interpret and apply terminology commonly used by the: - customer - rade by the: - rade by the: - rade by the: - control system such as: - capacity and horsepower - dimensions - connections - pressure and temperature - Use manufacturer's specifications as resource material to determine the selection of an alternate condenser and accessories
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT: - CONDENSERS AND ACCESSORIES of the following types: - air cooled - water cooled

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select condensing units: - from those types functionally identified as especially suitable or compatible for a specific customer application manufacturer. - with or without options offered by the manufacturer of satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected condensing unit fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of condensing units and their uses in refrigeration and air conditioning - Identify condensing units from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - horsepower and capacity - dimensions - electrical characteristics - temperature - refrigerant - connections: - type - size - type - size - Use manufacturer's specifications as resource material to determine the selection of an alternate condensing unit and accessories
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT: - CONDENSING UNITS of the following types: - air cooled - water cooled - combination and remote

HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select unit coolers and electric defrost units: - from those types functionally identified as especially suitable or compatible for a specially suitable or compatible for a customer requirements without undue excess - based upon local codes and safety consideration tc. Verify with the customer that the parameters of the selected unit cooler and electric defrost unit fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through. resource of an efrost
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of unit coolers and electric defrost units and their uses in refrigeration - Identify unit coolers and electric defrost units from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc. - shape, arrangement, configuration, etc. - Interpret and apply terminology commonly used by the: - customer - Transpose information received into precise data required for final selection from a stock control system such as: - capacity - dimensions and physical data - electrical characteristics - application and location - Use manufacturer's specifications as resource material to determine the selection of an alternate unit cooler and electric defrost unit
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - UNIT COOLERS AND ELECTRIC DEFROST UNITS

HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select refrigerant controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected refrigerant control fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of refrigerant controls and their uses in refrigeration and air conditioning - Identify refrigerant controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - temperature pressure rating - type and size of connections - type and size of connections - type and size of connections - type of refrigerant used - capacity - internal or external equalizer - thermostatic charge - internal or determine the selection of an alternate refrigerant control	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - REFRIGERANT CONTROLS of the following types: - thermostatic expansion valve - hand expansion valve - capillary tube - low pressure float valve - high pressure float valve	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No.5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select refrigeration and air conditioning controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess based upon local codes and safety consideration Verify with the customer that the parameters of the selected refrigeration and air conditioning controlls fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of refrigeration and air conditioning controls and their uses in refrigeration and air conditioning controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc. - arrangement, configuration, etc. - nterpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - coil rating - coil rating - contact rating - contact rating - contact rating - temperature range - electrical rating - switching - We manufacturer's specifications as resource material to determine the selection of an alternate refrigeration and air conditioning control	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - REFRIGERATION AND AIR CONDITIONING CONTROLS including: - contactors and enclosures - fan relays and centers - thermal delay relay - heat pump controls - pressure-activated controls - refrigeration temperature controls - control panels	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select defrost controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess Verify with the customer that the parameters of the selected defrost control fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of defrost controls and their uses in refrigeration - Identify defrost controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - voltage and phase - capacity - normal position for contacts during refrigeration cycle	- Use manufacturer's specifications as resource material to determine the selection of an alternate defrost control
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	- DEFROST CONTROLS including: - commercial - appliance	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select air conditioners: - from those types functionally identified as especially suitable or compatible for a specific customer application hat bectro-mechanical ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the specifications of the selected air conditioner fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of air conditioners and their uses in air conditioning - Identify air conditioners from a minimum of information pertaining to: - function - function - function - type - manufacturer's brand name, model etc Shape, arrangement, configuration, etc Shape, arrangement, configuration, etc Transpose information received into precise data required for final selection from a stock control system such as: - capacity - electrical characteristics - dimensions - location - Use manufacturer's specifications as resource material to determine the selection of an alternate air conditioner
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - AIR CONDITIONERS - Commercial - Residential of the following types: - packaged - split - room

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select water coolers and ice makers: - from those types functionally identified as especially suitable or compatible for a specific customer application with ratings that satisfy customer requirements without undue excess consideration local codes and safety consideration. Verify with the customer that the parameters of the selected water cooler and ice maker fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of water coolers and ice makers and their uses in refrigeration - Identify water coolers and ice makers from a minimum of information pertaining to: - function - function - type - manufacturer's brand name, model, etc Shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - capacity - dimensions - application - Use manufacturer's specifications as resource material to determine the selection of an alternate water cooler and ice maker
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - WATER COOLERS AND ICE MAKERS

TON AND AIR CONDITIONING &CDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select refrigeration accessories: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess readurements without undue excess readurements without undue excess consideration Verify with the customer that the parameters of the selected refrigeration accessory fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
D CRITERIA FOR: COUNTER HEATING, REFRIGERATION AND AIR CONDITIONING CLERK	ENABLING OBJECTIVES : Will be able to	- Understand the function of refrigeration accessories and their uses in refrigeration and air conditioning - Identify refrigeration accessories from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - dimensions - type of refrigerant - capacity - horsepower and discharge pressure of the compressor - Use manufacturer's specifications as resource material to determine the selection of an alternate refrigeration accessory
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT: - REFRIGERATION ACCESSORIES of the following types: - receivers - heat exchangers - suction accumulators - driers - vibration eliminators - vibration eliminators - suction line filters - strainers - strainers - strainers - strainers - strainers - strainers - cank case heaters - refrigeration gauges - refrigeration gauges

SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR: COUNTER HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select pumps: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess consideration Verify with the customer that the parameters of the selected pump fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
	ENABLING OBJECTIVES : Will be able to	- Understand the function of pumps and their uses in heating, refrigeration and air conditioning - Identify pump from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - capacity - efficiency and pressure - motor parameters - dimensions - Use manufacturer's specifications as resource material to determine the selection of an alternate pump	
	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - PUMPS of the following: - condensate - ice machine - wacuum - vacuum - acid - circulating	

AND CRITERIA FOR: COUNTER HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	ENABLING OBJECTIVES TERMINAL PERFORMANCE CRITERIA : Will be able to	refrigerant the function of refrigerants and refrigerant toils: refrigerant oils and their uses in refrigerant oils as especially suitable or compatible for a specific customer application - characteristics - characteristics - characteristics - characteristics - characteristics - characteristics - manufacturer's brand name, number, chemical name and formula - interpret and apply terminology commonly name and formula - customer and formula - customer - manufacturer is brand name, number, chemical - trade - manufacturer is specifications as resource and termine the selection of an alternate - Safely store and handle refrigerant and refrigerants and transfer refriderants	
	TERMINAL PERFORMANCE OBJECTIVES ENABLINES : Will b: To be able to	S rea last 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No.5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select brazing and soldering equipment and supplies. - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess Verify with the customer that the parameters of the selected brazing and soldering equipment fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Intilate and inform the customer of procedures for ordering, shipping, alerting and follow through.	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of brazing and soldering equipment and their uses in heating, refrigeration and air conditioning - Identify brazing and soldering equipment and supplies from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - application - size - type - use manufacturer's specifications as resource material to determine the selection of an alternate - Safely store and handle propane and acetylene gas tanks	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - BRAZING AND SOLDERING EQUIPMENT AND SUPPLIES of the following types: - oxyacetylene - propane including: - gas tanks - solders and brazing alloys - fluxes - hoses - hoses - stems - regulators - regulators - valves - valves - valves - valves - valves - valves	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select gaskets: - from those types functionally identified as especially suitable or compatible for a specific customer application based upon local codes and safety consideration Verify with the customer that the selected gaskets fulfill realtive needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of gaskets and their uses in refrigeration - Identify gaskets from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc. - Shape, arrangement, configuration, etc. - Interpret and apply terminolgoy commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - dimensions - type of material - shape - Use manufacturer's specifications as resource material to determine the selection of an alternate gasket
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	- GASKETS

HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select oil burner controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected oil burner control fulfill relative needs. An acceptable alternate will be recommended fo fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
: COUNTER CLERK	ENABLING OBJECTIVES : Will be able to	- Understand the function of oil burner controls and their uses in heating - Identify oil burner controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - ignition rating - ignition rating - electrical rating of contact - switch type, action and timing - lostrical rating of contact - switch type, action and timing - lostrical rating of contact - switch type, action and timing - lostrical rating of contact - switch type, action and timing - lostrical rating of contact - switch type, action and timing - lostrical rating of contact - switch type, action and timing - lostrical rating of contact - switch type, action and timing - lostrical rating of contact - switch type action and timing
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT OIL BURNER CONTROLS including: detectors cadmium cell controls stack controls magnetic valve time delay relay

HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select gas burner controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess based upon local codes and safety consideration An acceptable alternate will be recommended to fill requests for noninventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, altering and follow through.	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of gas burner controls and their uses in heating - Identify gas burner controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - electrical rating - dimensions - capacity - type of gas and tip style - temperature-pressure rating - temperature-pressure rating - temperature-pressure rating - the material to determine the selection of an alternate gas burner control	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT GAS BURNER CONTROLS including: combination gas controls and components systems thermocouples thermocouples control bodies operator pressure regulator gas burner accessories	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select flame safeguard controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration	Verify with the customer that the parameters of the selected flame safeguard control fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.		
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of flame safeguard controls and their uses in heating - Identify flame safeguard controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc arrangement, configuration, etc.	- Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise matarequired for final selection from a stock control system such as: - electrical rating - flame response and safety switch timing - contact rating - dimensions and mounting	- Use manufacturer's specifications as resource material to determine the selection of an alternate flame safeguard control	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - FLAME SAFEGUARD CONTROLS including: - flame detectors - electronic - photocell - flame rod - programmers			

HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select hydronic controls: - from those types functionally identified as especially suitable or compatible for a specific customer application - with electro-mechanical ratings that satisfy customer requirements without undue excess based upon local codes and safety consideration Verify with the customer that the parameters of the selected hydronic control fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of hydronic controls and their uses in heating, refrigeration and air conditioning - Identify hydronic controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - electrical rating - mounting means - electrical rating - mounting means - temperature range - differential scale range - differential scale range - differential codetermine the selection of an alternate hydronic control	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - HYDRONIC CONTROLS including: - high limit - low limit - circulator - combination	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	- from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess - based upon local codes and safety consideration Verify with the customer that the parameters of the selected warm air control fulfill relative needs An acceptable alternate will be recommended to fill requests for non-inventory items Items will be located and supplied within a minimum period of time Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through	
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of warm air controls and their uses in heating - Identify warm air controls from a minimum of information pertaining to: - function - type - manufacturer's brand name, model, etc arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - electrical rating - dimensions (element) - mounting - range - Use manufacturer's specifications as resource material to determine the selection of an alternate warm air control	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - WARM AIR CONTROLS including: - fan - limit - combination fan-limit	

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select oil burners and component parts: from those types functionally identified as especially suitable or compatible for a specific customer application with tolerances that satisfy customer requirements without undue excess based upon local codes and safety consideration Verify with the customer that the parameters of the selected oil burner and component part fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.		
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of oil burners and components and their uses in heating - Identify oil burners and component parts from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - spray angle - capacity - dimensions - mounting - rotation of the pump	- Use manufacturer's specifications as resource material to determine the selection of an alternate oil burner and component part	
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT OIL BURNER AND COMPONENT PARTS of the following: nozzle stabilizers air cones fuel pumps fuel pumps filters		

HEATING, REFRIGERATION & AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select oil burner ignition parts: - from those types functionally identified as especially suitable or compatible for a specific customer application with electro-mechanical ratings that satisfy customer requirements without undue excess based upon local codes and safety consideration Verify with the customer that the parameters of the selected ignition parts fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of ignition parts, and their uses in heating - Identify oil burner ignition parts from a minimum of information pertaining to: - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc trace - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - TX body and mounting base size - TX body and mounting base size - position and style of H.V. terminals - position and style of H.V. terminals - primary and secondary voltages - position and insulator diameter and length - Use manufacturer's specifications as resource material to determine the selection of an alternate ignition part
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES : To be able to	SELECT - OIL BURNER IGNITION PARTS including: - transformers and mounts - electrode assemblies - ignition cable or bus bars - ignition cable or bus bars

HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select furnaces: - from those types functionally identified as especially suitable or compatible for a specific customer application - with ratings that satisfy customer requirements without undue excess based upon local codes and safety consideration Verify with the customer that the specifications of the selected furnace fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of furnaces and their uses in heating - Identify furnaces from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - capacity - dimensions - physical data - Use manufacturer's specifications as resource material to determine the selection of an alternate furnace
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - FURNACES of the following types: - gas - oil

HEATING, REFRIGERATION AND AIR CONDITIONING C C D 0 No.5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	Select refractory materials: - from those types functionally identified as especially suitable or compatible for a specific customer application - based upon local codes and safety consideration Verify with the customer that the ratings of the selected refractory materials fulfill relative needs. An acceptable alternate will be recommended to fill requests for non-inventory items. Items will be located and supplied within a minimum period of time. Initiate and inform the customer of procedures for ordering, shipping, alerting and follow through.
COUNTER	ENABLING OBJECTIVES : Will be able to	- Understand the function of refractory materials and their uses in heating - Identify refractory materials from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc Interpret and apply terminology commonly used by the: - customer - trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - temperature rating - dimensions - insulation factor - durability - Use manufacturer's specifications as resource material to determine the selection of an alternate
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - REFRACTORY MATERIALS including: - brick - castings - cement - insulation

HEATING, REFRIGERATION AND AIR CONDITIONING C C D O No.5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard) Winding LC LOT N
COUNTER	ENABLING OBJECTIVES: Will be able to	- Understand the function of common oil burner service tools and their uses in heating - Identify oil burner service tools from a minimum of information pertaining to: - function - type - manufacturer's brand name, model etc shape, arrangement, configuration, etc shape, arrangement, configuration, etc trade - manufacturer - Transpose information received into precise data required for final selection from a stock control system such as: - application - size - capacity
SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR:	TERMINAL PERFORMANCE OBJECTIVES: To be able to	SELECT - OIL BURNER SERVICE TOOLS of the following types: - nozzle wrenches - electrode wrenches - electrode tip bending tools - flame inspection mirrors

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SPECIFIC PERFORMANCE OBJECTIVES AND CRITERIA FOR: COUNTER HEATING, REFRIGERATION AND AIR CONDITIONING CCDO No. 5135-126	TERMINAL PERFORMANCE CRITERIA : Minimum acceptable standard	The control will be inspected for: - rust, water or acid damage - broken or missing parts before testing. The operating voltage will be selected prior to testing. The tester will be operated according to the manufacturer's instructions to: - test a control for normal operations simulate various control failures to analyse related system malfunctions. The condition of the control will be defined and recorded.
	ENABLING OBJECTIVES : Will be able to	- Understand the function of the tester, and its use in analysing multi-stage heating controls - Identify the control for test purposes and select the corresponding subbase - Determine the condition of the control
	TERMINAL PERFORMANCE OBJECTIVES : To be able to	OPERATE - TESTERS, HEATING CONTROLS



